

## OPINION 1247

*DACTYLOPIUS* COSTA, (NOV. 1829) AND *PSEUDOCOCCUS* WESTWOOD, 1840 (INSECTA, HOMOPTERA): DESIGNATION OF TYPE SPECIES

RULING. — (1) Under the plenary powers:

- (a) The generic name *Diaprosteci* Costa, 1828 is hereby suppressed for the purposes of the Law of Priority but not for those of the Law of Homonymy;
- (b) the date of publication of Costa's *Fauna del regno di Napoli, Famiglia de' coccinigliferi o de' gallinsetti, Emittenti* (Napoli) is hereby ruled to be (Nov. 1829);
- (c) all designations of type species hitherto made for the nominal genera *Dactylopius* Costa, (Nov. 1829) and *Pseudococcus* Westwood, 1840 are hereby set aside and the following designations are here made:
  - (i) for *Dactylopius* Costa, (Nov. 1829), *Dactylopius coccus* Costa, (Nov. 1829);
  - (ii) for *Pseudococcus* Westwood, 1840, *Dactylopius longispinus* Targioni-Tozzetti, 1867;
- (d) the following specific names are hereby suppressed for the purposes of the Law of Priority but not for those of the Law of Homonymy:
  - (i) *adonidum* Linnaeus, 1767, as published in the binomen *Coccus adonidum*;
  - (ii) *coffae* Linnaeus, 1767, as published in the binomen *Pediculus coffae*.

(2) The following generic names are hereby placed on the Official List of Generic Names in Zoology with the Name Numbers specified:

- (a) *Dactylopius* Costa, (Nov. 1829) (gender: masculine), type species, by designation under the plenary powers in 1c(i) above, *Dactylopius coccus* Costa, (Nov. 1829) (Name Number 2187);
- (b) *Pseudococcus* Westwood, 1840 (gender: masculine), type species, by designation under the plenary powers in 1(c)(ii) above, *Dactylopius longispinus* Targioni-Tozzetti, 1867 (Name Number 2188).

(3) The following specific names are hereby placed on the Official List of Specific Names in Zoology with the Name Numbers specified:

- (a) *coccus* Costa, (Nov. 1829), as published in the binomen *Dactylopius coccus* (specific name of type species of *Dactylopius* Costa, (Nov. 1829) (Name Number 2851);
- (b) *longispinus* Targioni-Tozzetti, 1867, as published in the binomen *Dactylopius longispinus* (specific name of type

species of *Pseudococcus* Westwood, 1840) with an endorsement that it is to be interpreted by reference to the neotype designated by Miller, 1981, *Bull. zool. Nom.*, vol. 38, p. 83 (Name Number 2852).

(4) The following family-group names are hereby placed on the Official List of Family-Group Names in Zoology with the Name Numbers specified:

(a) DACTYLOPIIDAE (Correction of 'Dactylopites') Signoret, 1875 (type genus *Dactylopius* Costa, (Nov. 1829)) (Name Number 554);

(b) PSEUDOCOCCIDAE Cockerell, 1905 (type genus *Pseudococcus* Westwood, 1840) (Name Number 555).

(5) The title of the following publication, *Fauna del Regno di Napoli, Famiglia de' coccinigliiferi o de' gallinsetti, Emmitteri* by O. G. Costa is hereby placed on the Official List of Works Approved as Available in Zoological Nomenclature, with an endorsement that its date of publication is to be cited as (Nov. 1829) and with the Title Number 46.

(6) The generic name *Diaprosteci* Costa, 1828, as suppressed under the plenary powers in 1(a) above, is hereby placed on the Official Index of Rejected and Invalid Generic Names in Zoology with the Name Number 2133.

(7) The following specific names, as suppressed under the plenary powers in 1(d)(i and ii) above, are hereby placed on the Official Index of Rejected and Invalid Specific Names in Zoology with the Name Numbers specified:

(a) *adonidum* Linnaeus, 1767, as published in the binomen *Coccus adonidum* (Name Number 1117);

(b) *coffeeae* Linnaeus, 1767, as published in the binomen *Pediculus coffeeae* (Name Number 1118).

#### HISTORY OF THE CASE Z.N.(S.)2091

A proposal to designate type species for the genera *Dactylopius* Costa and *Pseudococcus* Westwood under the plenary powers was first received from Dr Douglass R. Miller (then of *Systematic Entomology Lab, USDA, Beltsville, Maryland 20705, U.S.A.*) on 9 October 1973. It was sent to the printer on 5 April 1974 and published on 20 September 1974 in *Bull. zool. Nom.* vol. 31, pp. 146–153. Public notice of the possible use of the plenary powers was given in the same part of the *Bulletin* as well as to the statutory serials and to eight entomological serials.

Dr Miller had asked that the date of publication of the work by O. G. Costa involved in the application should be ruled to be '[1835]', but Dr L. B. Holthuis wrote to draw attention to a work by d'Erasmo, 1949, *Rendiconti Accad. Sci. fis. mat. Soc. Naz. Sci. Lett. Arti Napoli* (4), vol. 16, pp. 14–36, giving evidence that the date of publication

should be cited as '(Nov. 1829)'. Dr Holthuis's letter was circulated to the members of the Commission with the voting papers on the case and his evidence has been taken into account in drafting the present Ruling. [In considering the application of Recommendation 22A to the citation of this date, I have treated Costa's *Fauna del Regno di Napoli* as a single work and have therefore enclosed the date in parentheses, not in square brackets. R.V.M.]

In February 1976 an extensive comment on the case was received from Dr Evelyn Danzig and Dr I. M. Kerzhner (*Zoological Institute, Academy of Sciences, Leningrad, USSR*) and copied to Dr Miller for his observations. Both were published on 30 April 1981 in *Bull. zool. Nom.* vol. 38, pp. 79–83. The application was also supported by Dr Helen M. Brookes (*Waite Agricultural Research Institute, University of Adelaide, South Australia*). No adverse comments were received.

#### DECISION OF THE COMMISSION

On 22 November 1982 the members of the Commission were invited to vote under the Three-Month Rule on Voting Paper (1982)19 on the proposals set out in *Bull. zool. Nom.* vol. 31, pp. 150–151 and emended in vol. 38, pp. 81–83. At the close of the voting period on 22 February 1983 the state of the voting was as follows:

Affirmative Votes — nineteen (19) received in the following order: Melville, Holthuis, Brinck, Savage, Uéno, Mroczkowski, Willink, Sabrosky, Halvorsen, Schuster, Corliss, Kraus, Alvarado, Trjapitzin, Hahn, Starobogatov, Bayer, Heppell, Ride

Negative Votes — none (0).

Bernardi was on leave of absence. Cocks and Dupuis abstained. A late affirmative vote was returned by Welch. No voting papers were returned by Binder, Cogger and Lehtinen.

Dupuis commented: 'Il n'est possible de voter le cas 2091 ni sous la forme originale, ni avec les additions de Danzig & Kerzhner, ni avec celles de Miller, ni compte tenu de la correction (justifiée) sur la date de 1829 pour Costa. En effet: (1) La Commission ne peut pas endosser sans examen sérieux l'idée que "*Diaprosteci*" soit un nom de genre. Il me paraît s'agir d'une division collective car ce nom est au pluriel, le pluriel de *Diaprostecus*. Ce nom vient du grec "diapro-steichos", de diapro=d'un bout à l'autre, et stichos, steicho, de stits=rang, ligne. Il signifie "ligné de bout en bout" (peut-être les "longitudinal rows" de Danzig & Kerzhner, p. 80, d'où possibilité d'identification dès Costa, 1829). (2) Westwood, 1840, Synopsis p. 1, en note, a déclaré que sous chaque genre il a mentionné la "typical species" et l'Opinion 71 considère cette désignation comme valide. La discussion de Miller à ce sujet est incomplète et le suivre sans examen serait courir un risque de contradiction avec l'Opinion 71. J'ajoute que la "course au néotype" entre divers Musées m'a paru une bonne plaisanterie.'

[The following observations may be made on these comments. Mr George Steyskal also takes the name to be in the plural but derives it from the Greek 'prosteko', to stick fast to something, which would be very suitable for a scale insect. I had discussed with Dr Miller the possibility of asking that this name be ruled as unavailable, but in the end it seemed better to ask for suppression, in case the name has been used as an available name. As Dr Miller showed, *Bull. zool. Nom.* vol. 31, p. 148, Westwood in his Synopsis cited *Pseudococcus* with two included species. Not even Opinion 71 can rule that two species are the type species. I have verified this reference. R.V.M.]

### ORIGINAL REFERENCES

The following are the original references for the names placed on Official Lists and Official Indexes by the ruling given in the present Opinion:

*adonidum*, *Coccus*, Linnaeus, 1767, *Syst. Nat.* ed. 12, vol. 1(2), p. 740  
*coccus*, *Dactylopius*, Costa, O. G., (Nov. 1829), *Fauna del Regno di Napoli*, Coccinigliferi, p. 16

*coffaeae*, *Pediculus*, Linnaeus, 1767, *Syst. Nat.* ed. 12, vol. 1(2), p. 740  
 DACTYLOPIIDAE Signoret, 1875, *Ann. Soc. entomol. France*, (5) vol. 5, p. 305

*Dactylopius* Costa, (Nov. 1829), *Fauna del Regno di Napoli*, Coccinigliferi, pp. 2, 15

*Diaprosteci* Costa, O. G., 1828, *Pontano*, vol. 1, p. 453

*longispinus*, *Dactylopius*, Targioni-Tozzetti, 1867, *Mem. Soc. ital. Sci. nat.*, vol. 3, p. 75

PSEUDOCOCCIDAE Cockerell, 1905, *Univ. Colorado Studies*, vol. 2, p. 193

*Pseudococcus* Westwood, 1840, *Introduction to modern classification of insects*, vol. 2, pp. 447, 488.

The following is the title of a work placed on the Official List of Works Approved as Available for Zoological Nomenclature: Costa, O. G., (Nov. 1829), *Fauna del Regno di Napoli*, famiglia de' coccinigliferi o de' gallinsetti, Emitteri. Napoli.

### CERTIFICATE

I hereby certify that the votes cast on V.P.(82)19 were cast as set out above, that the proposal contained in that voting paper has been duly adopted under the plenary powers, and that the decision so taken, being the decision of the International Commission on Zoological Nomenclature, is truly recorded in the present Opinion No. 1247.

R. V. MELVILLE

Secretary

International Commission on Zoological Nomenclature

London

17 March 1983